

CLAIMS

What Is Claimed Is:

- 1 1. A plastic composition comprising:
2 a thermoplastic resin; and
3 a naturally occurring aluminosilicate glass uniformly dispersed throughout the
4 composition.
- 1 2. A plastic composition of Claim 1 wherein the thermoplastic resin is selected from a
2 group consisting of polyethylene, polyvinyl chloride, polypropylene, polystyrene,
3 polyethylene terephthalate, acrylonitrile butadiene styrene, polymethyl methacrylate,
4 polyamide and polycarbonate.
- 1 3. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass comprises:
- | | | |
|----|--------------------------------|------------|
| 3 | SiO ₂ | --- 66-77% |
| 4 | TiO ₂ | --- 0-2% |
| 5 | Al ₂ O ₃ | --- 10-22% |
| 6 | Fe ₂ O ₃ | --- 0-4% |
| 7 | MgO | --- 0-2% |
| 8 | CaO | --- 0-3% |
| 9 | Na ₂ O | --- 2-8% |
| 10 | K ₂ O | --- 2-8% |
| 11 | All other element oxides | --- 0-1% |
| 12 | H ₂ O | --- 0-20% |
- 1 4. The plastic composition of Claim 3 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 0.5% by weight of the composition.
- 1 5. The plastic composition of Claim 3 wherein the naturally occurring aluminosilicate
2 glass is in a quantity within the range of about 0.1% to 3.0% by weight of the composition.

100349 6519001

1 6. The plastic composition of Claim 3 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 1% by weight of the composition.

1 7. The plastic composition of Claim 3 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 1.5% by weight of the composition.

1 8. The plastic composition of Claim 3 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 2% by weight of the composition.

1 9. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 0.5% by weight of the composition.

1 10. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass is in a quantity within the range of about 0.1% to 3.0% by weight of the composition.

1 11. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 1% by weight of the composition.

1 12. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 1.5% by weight of the composition.

1 13. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass is in a quantity of about 2% by weight of the composition.

1 14. The plastic composition of Claim 1 wherein the naturally occurring aluminosilicate
2 glass is in particles sized less than 325 mesh.

1 15. An article of manufacture made from a plastic composition wherein the plastic
2 composition comprises:

1052216543001

3 a thermoplastic resin; and
4 a naturally occurring aluminosilicate glass uniformly dispersed throughout the
5 composition.

1 16. The article of manufacture of Claim 15 wherein the thermoplastic resin is selected
2 from a group consisting of polyethylene, polyvinyl chloride, polypropylene, polystyrene,
3 polyethylene terephthalate, acrylonitrile butadiene styrene, polymethyl methacrylate,
4 polyamide and polycarbonate.

1 17. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass comprises:

3	SiO ₂	--- 66-77%
4	TiO ₂	--- 0-2%
5	Al ₂ O ₃	--- 10-22%
6	Fe ₂ O ₃	--- 0-4%
7	MgO	--- 0-2%
8	CaO	--- 0-3%
9	Na ₂ O	--- 2-8%
10	K ₂ O	--- 2-8%
11	All other element oxides	--- 0-1%
12	H ₂ O	--- 0-20%

1 18. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 0.5% by weight of the composition.

1 19. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass is in a quantity within the range of about 0.1% to 3.0% by weight of
3 the composition.

1 20. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 1% by weight of the composition.

1 21. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 1.5% by weight of the composition.

1 22. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 2% by weight of the composition.

1 23. The article of manufacture of Claim 15 wherein the naturally occurring
2 aluminosilicate glass is in particles sized less than 325 mesh.

1 24. A method of making an article, the steps of the method comprising:
2 selecting a thermoplastic resin;
3 dispersing a naturally occurring aluminosilicate glass uniformly throughout the
4 selected thermoplastic resin to form a composition; and
5 processing the composition under elevated temperature and pressure.

1 25. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass comprises:

3	SiO ₂	--- 66-77%
4	TiO ₂	--- 0-2%
5	Al ₂ O ₃	--- 10-22%
6	Fe ₂ O ₃	--- 0-4%
7	MgO	--- 0-2%
8	CaO	--- 0-3%
9	Na ₂ O	--- 2-8%
10	K ₂ O	--- 2-8%
11	All other element oxides	--- 0-1%
12	H ₂ O	--- 0-20%

1 26. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 0.5% by weight of the composition.

1 27. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass is in a quantity within the range of about 0.1% to 3.0% by weight of
3 the composition.

1 28. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 1% by weight of the composition.

1 29. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 1.5% by weight of the composition.

1 30. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass is in a quantity of about 2% by weight of the composition.

1 31. The method of making an article of Claim 24 wherein the naturally occurring
2 aluminosilicate glass is in particles sized less than 325 mesh.

10036153003

ADD A1 >